Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 06/01/2015 Revision date: 01/25/2019

Version: ADV-175-BK-2019a

SECTION 1: Identification

| Identification | |
|---|---|
| Product form | : Mixtures |
| Product name | : PRO-SET® ADV-175-BK |
| Product code | : ADV-175-BK, ADV-175-BK-0, ADV-175-BK-2, ADV-175-BK-4 |
| Relevant identified uses of the substan | nce or mixture and uses advised against |
| Recommended use | : Pigmented adhesive resin for composites |
| Details of the supplier of the safety dat | ta sheet |
| Manufacturer Gougeon Brothers, Inc 100 Patterson Ave. Bay City, MI 48706 - U.S.A. T 888-377-6738 or 989-684-7286 www.prosetepoxy.com | |
| Emergency telephone number | |
| Emergency number | : CHEMTREC 1 (800) 424-9300 CHEMTREC International +1 (703) 527-3887 24 hr |
| SECTION 2: Hazard(s) identific | ation |
| Classification of the substance or mixt | |
| Skin Irrit. 2 Eve Irrit. 2A | |

Eye Irrit. 2A Skin Sens. 1 Aquatic Chronic 2

Label elements

Hazard pictograms (GHS)



Signal word (GHS)

Warning

Hazard statements (GHS)

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects

•

Precautionary statements (GHS)

Avoid breathing dust, fume, gas, mist, vapours, spray. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves, protective clothing, eye protection, face protection. If on skin: Wash with plenty of soap and water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

Other hazards

No additional information available

Unknown acute toxicity

Not applicable

SECTION 3: Composition/information on ingredients

Substance

Not applicable

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Mixtures

| Name | Product identifier | HPR % |
|---|----------------------|---------|
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer | (CAS No) 25085-99-8 | 65 - 85 |
| Alkyl (C12-14) glycidyl ether | (CAS No) 68609-97-2 | 3 - 7 |
| Silica, amorphous, fumed, crystalline-free | (CAS No) 112945-52-5 | 1 - 5 |
| Phenol, polymer with formaldehyde, glycidyl ether | (CAS No) 28064-14-4 | 1 - 5 |
| Oxirane, 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)]bis- | (CAS No) 17557-23-2 | 1 - 5 |

The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as confidential business information (CBI). Any ingredient not disclosed in this section may have been determined not to be hazardous to health or the environment, or it may be present at a level below its disclosure threshold.

| OFOTION 4. First sid mass areas | | | | |
|---|---|--|--|--|
| SECTION 4: First aid measures | | | | |
| Description of first aid measures | | | | |
| First-aid measures after inhalation | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. | | | |
| First-aid measures after skin contact | In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. | | | |
| First-aid measures after eye contact | : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention. | | | |
| First-aid measures after ingestion | If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. | | | |
| Most important symptoms and effects, both acute and delayed | | | | |
| Symptoms/injuries after inhalation | : May cause respiratory tract irritation. | | | |
| Symptoms/injuries after skin contact | : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reaction. | | | |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. | | | |
| Symptoms/injuries after ingestion | : May be harmful if swallowed. May cause stomach distress, nausea or vomiting. | | | |

Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

| SECTION 5: Firefighting measures | |
|---|---|
| Extinguishing media | |
| Suitable extinguishing media | : Foam. Carbon dioxide. Dry chemical. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |
| Special hazards arising from the substance of | or mixture |
| Fire hazard | : Products of combustion may include, and are not limited to: oxides of carbon, phenolics. |
| Reactivity | : No dangerous reaction known under conditions of normal use. |
| Advice for firefighters | |
| Protection during firefighting | : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray or fog for cooling exposed containers. |
| SECTION 6: Accidental release mea | sures |

Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

For non-emergency personnel

No additional information available

For emergency responders

No additional information available

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Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

| Methods and material for containme | nt and cleaning up |
|---|---|
| For containment | Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). |
| Methods for cleaning up | : Scoop up material and place in a disposal container. Provide ventilation. |
| Reference to other sections See section 8 for further information or | protective clothing and equipment and section 13 for advice on waste disposal. |

| SECTION 7: Handling and storage | |
|---|---|
| Precautions for safe handling | |
| Precautions for safe handling | : Avoid contact with skin and eyes. Avoid breathing dust, fume, gas, mist, vapours, spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. When mixed with epoxy curing agents this product causes an exothermic reaction, which in large masses, can produce enough heat to damage or ignite surrounding materials and emit fumes and vapors that vary widely in composition and toxicity. |
| Hygiene measures | : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking. |
| Conditions for safe storage, including any in | ncompatibilities |
| Storage conditions | : Keep out of the reach of children. Keep container tightly closed. Store in a cool, dry location. |

: Keep out of the reach of children. Keep container tightly closed. Store in a cool, dry location. Protect from moisture. Storage temperature : 40°F (4°C) - 120°F (49°C).

SECTION 8: Exposure controls/personal protection

Control parameters

| Alkyl (C12-14) glyc | cidyl ether (68609-97-2) | |
|----------------------|--|---|
| Not applicable | | |
| Silica, amorphous | , fumed, crystalline-free (112945-52-5) | |
| ACGIH | ACGIH TWA (mg/m³) | 10 mg/m ³ (Inhalable) 3 mg/m ³ (Respirable) |
| OSHA | OSHA PEL (TWA) (mg/m³) | 6 mg/m³ (Amorphous silica) 15 mg/m³ (Total dust) 5 mg/m³ (Respirable) |
| Phenol, polymer w | vith formaldehyde, glycidyl ether (28064-14-4) | |
| Not applicable | | |
| Oxirane, 2,2'-[(2,2- | dimethyl-1,3-propanediyl)bis(oxymethylene)]bis- (1 | 7557-23-2) |
| Not applicable | | |

recommended exposure limits. : Wear chemically resistant protective gloves. Hand protection Eye protection Wear eye/face protection. : Skin and body protection : Wear suitable protective clothing. **Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment. **Environmental exposure controls** : Maintain levels below Community environmental protection thresholds. Other information : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

| Information on basic physical and chemical | prop | perties |
|--|------|---------|
| Physical state | : | Liquid |

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| Appearance | : Gel |
|--|---|
| Colour | : Black |
| Odour | : Mild |
| Odour threshold | : No data available |
| рН | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : > 400 °F (204 °C) |
| Flash point | : > 200 °F (93 °C) (Based on ASTM D92 test results from similar product) |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Flammability (solid, gas) | : Not flammable |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : < 1 (Estimated based on ingredient data) |
| Relative density | : 1.14 |
| Solubility | : No data available |
| Partition coefficient n-octanol/water | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive limits | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Other information | |
| Bulk density | : 9.5 lb/gal (1.14 kg/L) |
| SECTION 10: Stability and reactivity | 1 |
| Reactivity | : No dangerous reaction known under conditions of normal use. |
| Chemical stability | : Stable under normal storage conditions. |
| Possibility of hazardous reactions | : No dangerous reaction known under conditions of normal use. A mass of more than one pound of product plus an alighatic amine will cause irreversible polymerization with significant heat |

of product plus an aliphatic amine will cause irreversible polymerization with significant heat buildup. Strong acids, bases, amines and mercaptans can cause polymerization. : Heat. Incompatible materials.

- : Strong acids. Bases. Amines. Mercaptans.
- Hazardous decomposition products : May include, and are not limited to: oxides of carbon, phenolics.

SECTION 11: Toxicological information

Information on toxicological effects

Conditions to avoid

Incompatible materials

| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer (25085-99-8) | | |
|--|---------------|--|
| LD50 oral rat | > 15000 mg/kg | |
| LD50 dermal rabbit | > 23000 mg/kg | |
| Alkyl (C12-14) glycidyl ether (686 | 09-97-2) | |
| LD50 oral rat | 17100 mg/kg | |
| LD50 dermal rabbit | > 4500 mg/kg | |
| Silica, amorphous, fumed, crystalline-free (112945-52-5) | | |
| LD50 oral rat | > 5000 mg/kg | |
| LD50 dermal rabbit | > 2000 mg/kg | |
| Phenol, polymer with formaldehyde, glycidyl ether (28064-14-4) | | |
| LD50 oral rat | > 2000 mg/kg | |
| LD50 dermal rabbit | 2000 mg/kg | |

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| Oxirane, 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)]bis- (17557-23-2) | |
|--|--|
| LD50 oral rat | 4500 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| Acute toxicity (oral) | : Not classified. |
| Acute toxicity (dermal) | : Not classified. |
| Acute toxicity (inhalation) | : Not classified. |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified. |
| Carcinogenicity | : Not classified. |

| Silica, amorphous, fumed, crystalline-free (112945-52-5) | |
|--|---|
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | : Not classified. |
| STOT-single exposure | : Not classified. |
| STOT-repeated exposure | : Not classified. |
| Aspiration hazard | : Not classified. |
| Symptoms/injuries after inhalation | : May cause respiratory tract irritation. |
| Symptoms/injuries after skin contact | : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reaction. |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. |
| Symptoms/injuries after ingestion | : May be harmful if swallowed. May cause stomach distress, nausea or vomiting. |
| Other information | : Likely routes of exposure: ingestion, inhalation, skin and eye. |

SECTION 12: Ecological information

| Toxicity | |
|--|------------------|
| Ecology - general : Toxic to aquatic life with long lasting effects. | |
| Persistence and degradability | |
| PRO-SET® ADV-175-BK | |
| Persistence and degradability | Not established. |
| Bioaccumulative potential | |
| PRO-SET® ADV-175-BK | |
| Bioaccumulative potential | Not established. |
| Mobility in soil | |
| PRO-SET® ADV-175-BK | |

| | Ecology - soil | No additional information available. |
|--|----------------|--------------------------------------|
| | | |

Other adverse effects

Effect on the global warming

: No known effects from this product.

| Name | Product identifier | Ecotoxicity Classification Information |
|---|----------------------|--|
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer | (CAS No) 25085-99-8 | Aquatic Chronic Cat. 2 |
| Alkyl (C12-14) glycidyl ether | (CAS No) 68609-97-2 | Not classified. |
| Silica, amorphous, fumed, crystalline-free | (CAS No) 112945-52-5 | Not classified. |
| Phenol, polymer with formaldehyde, glycidyl ether | (CAS No) 28064-14-4 | Aquatic Chronic Cat. 2 |
| Oxirane, 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)]bis- | (CAS No) 17557-23-2 | Not classified. |

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SECTION 13: Disposal considerations

Waste treatment methods

Product/Packaging disposal recommendations

: This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

SECTION 14: Transport information

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT and TDG Not regulated

Transport by sea

| In accordance with IMDG | |
|-----------------------------|--|
| UN-No. (IMDG) | : 3077 |
| Proper Shipping Name (IMDG) | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy Resin) |
| Class (IMDG) | : 9 |
| Packing group (IMDG) | : 111 |
| Marine pollutant | : Yes |
| Transport by air | |
| In accordance with IATA | |
| UN-No. (IATA) | : 3077 |
| Proper Shipping Name (IATA) | : Environmentally hazardous substance, solid, n.o.s. (Epoxy Resin) |
| Class (IATA) | : 9 |
| Packing group (IATA) | : 111 |
| Marine pollutant | : Yes |
| | |

SECTION 15: Regulatory information

Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA).

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer (25085-99-8) | | | |
|---|---|--|--|
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). | | |
| Phenol, polymer with formaldehyde, glycid | yl ether (28064-14-4) | | |
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). | | |
| Oxirane, 2,2'-[(2,2-dimethyl-1,3-propanediy |)bis(oxymethylene)]bis- (17557-23-2) | | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. | | |
| Epichlorohydrin (106-89-8) | | | |
| Listed on the United States SARA Section 302 Subject to reporting requirements of United States SARA Section 313 | | | |
| CERCLA RQ | 100 lb | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 1000 lb | | |
| SARA Section 313 - Emission Reporting | 0.1 % | | |

International regulations

No additional information available

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US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

| Epichlorohydrin (106-89-8) | | | | |
|--|--|---|---|--------------------------------------|
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
| Yes | No | No | Yes | 9 μg/day |
| Carbon black (1333-86-4) | | | | |
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
| Yes | No | No | No | |

| Epichlorohydrin (106-89-8) | |
|---|--|
| U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances U.S Pennsylvania - RTK (Right to Know) List | |
| Carbon black (1333-86-4) | |
| U.S New Jersey - Right to Know Hazardous Substance List | |
| U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances U.S Pennsylvania - RTK (Right to Know) List | |

| SECTION 16: Other information |
|-------------------------------|
|-------------------------------|

| Date of issue | : 06/01/2015 |
|--|--------------|
| Revision date | : 01/25/2019 |
| Other information | : None. |
| | |
| NFPA health hazard | : 2 |
| NFPA health hazard NFPA fire hazard | : 2 : 1 |

| HMIS III Rating | |
|-----------------|---------------------|
| Health | : 2 Moderate Hazard |
| Flammability | : 1 Slight Hazard |
| Physical | : 1 Slight Hazard |

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